FIG. 1 (PRIOR ART)

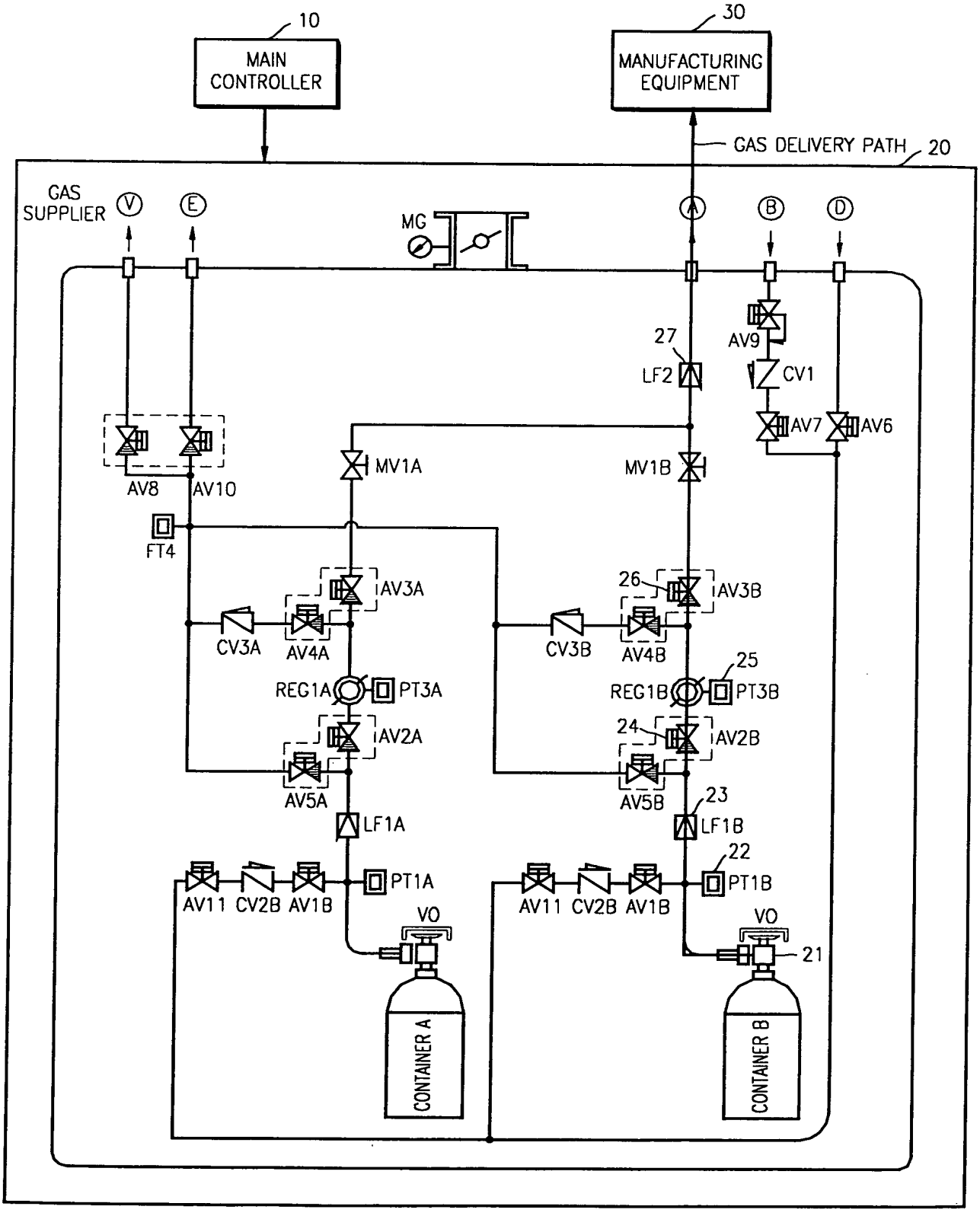


FIG. 2 (PRIOR ART)

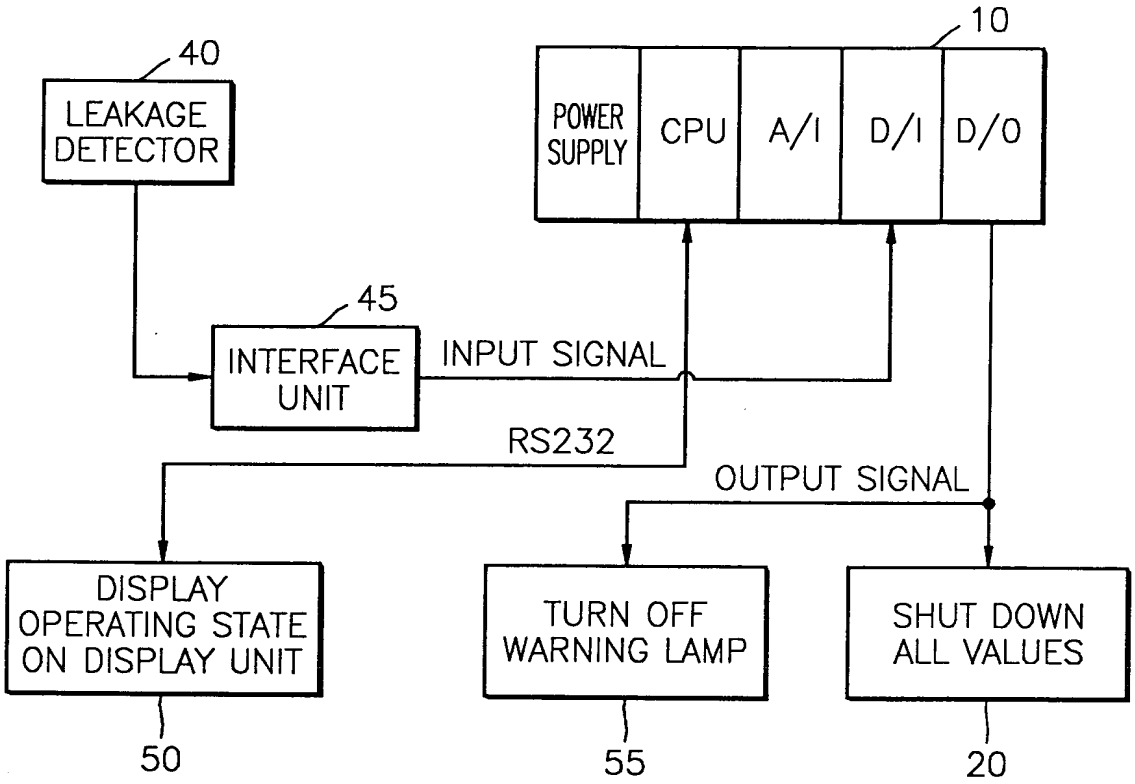


FIG. 3

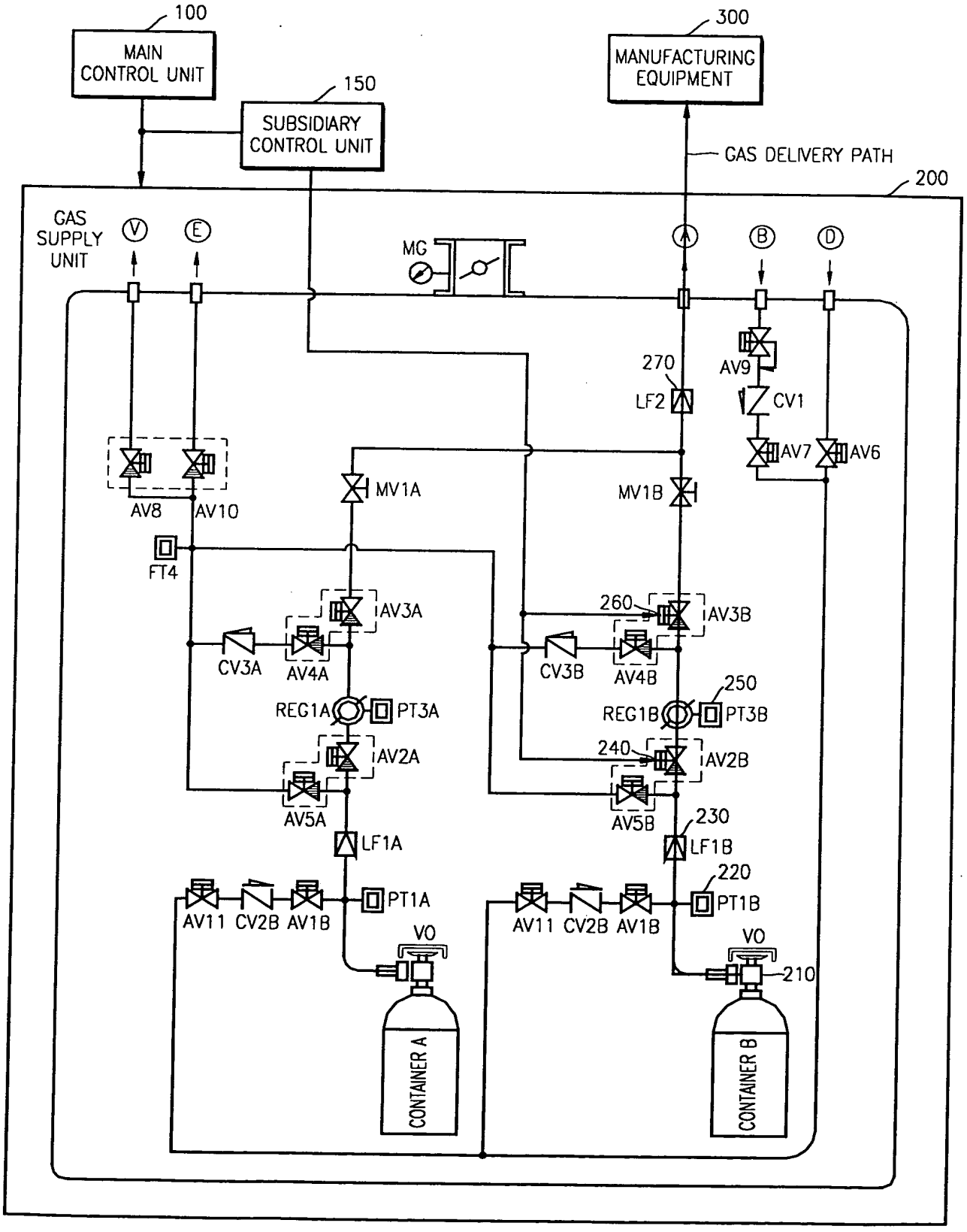

100
MAIN CONTROL UNIT
150
SUBSIDIARY CONTROL UNIT
300
MANUFACTURING EQUIPMENT
GAS DELIVERY PATH
200
GAS SUPPLY UNIT
V
E
MG
A
B
D
270
LF2
AV9
CV1
AV7
AV6
AV8
AV10
MV1A
MV1B
FT4
AV3A
260
AV3B
CV3A
AV4A
CV3B
AV4B
REG1A
PT3A
250
REG1B
PT3B
AV2A
240
AV2B
AV5A
AV5B
230
LF1A
LF1B
220
AV11
CV2B
AV1B
PT1A
PT1B
VO
210
CONTAINER A
CONTAINER B

FIG. 4

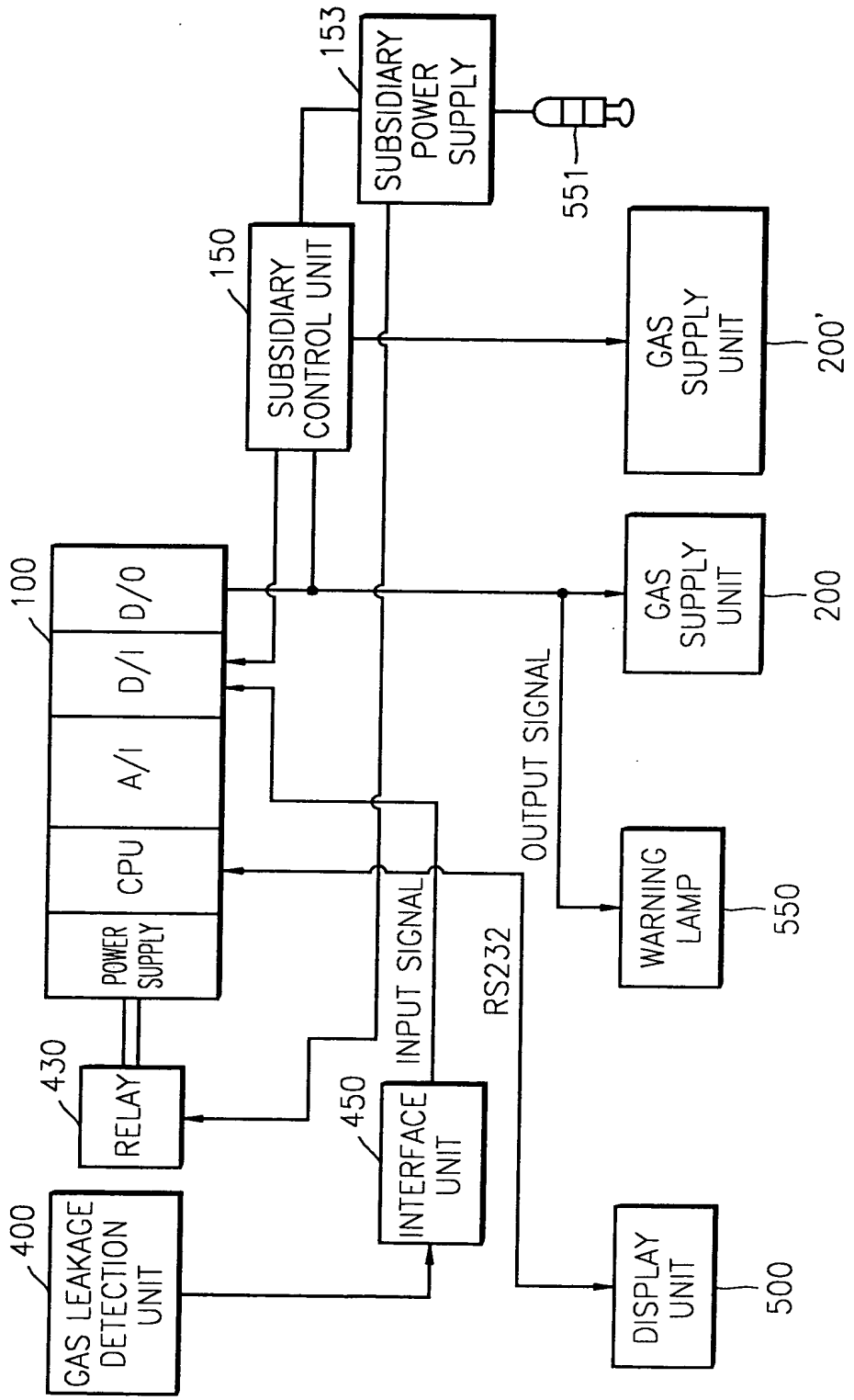
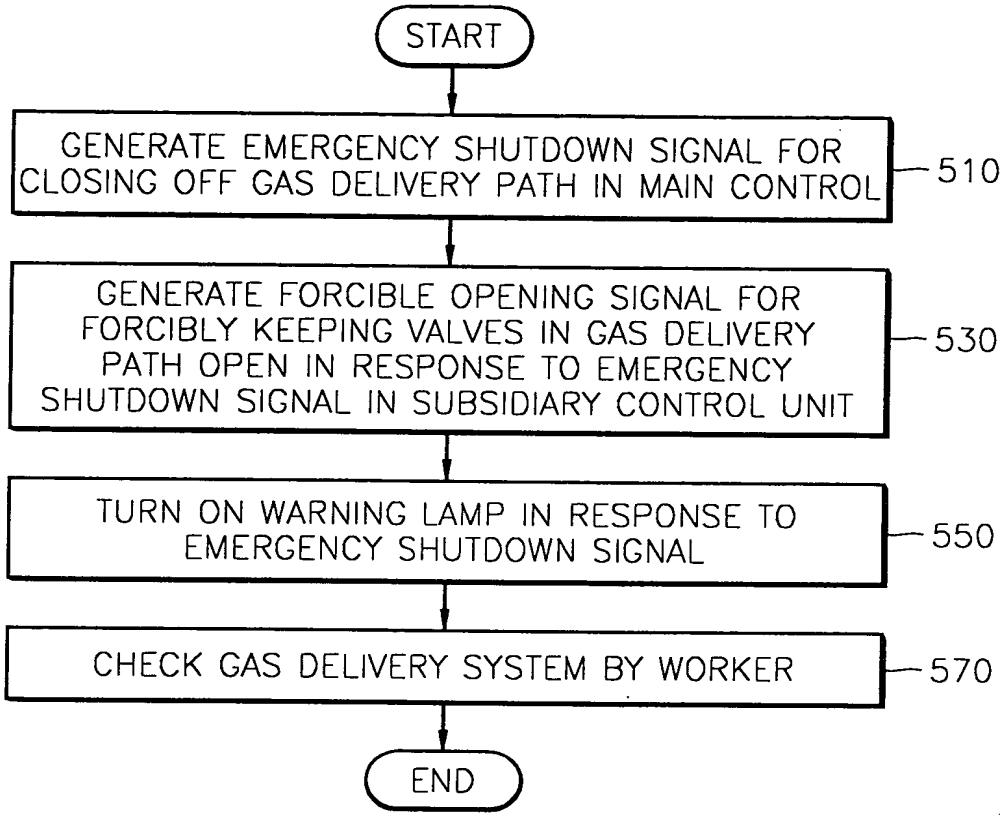

153
SUBSIDIARY POWER SUPPLY
551
150
SUBSIDIARY CONTROL UNIT
GAS SUPPLY UNIT
200'
100
D/O
D/I
A/I
CPU
POWER SUPPLY
GAS SUPPLY UNIT
200
OUTPUT SIGNAL
WARNING LAMP
550
INPUT SIGNAL
RS232
430
RELAY
450
INTERFACE UNIT
400
GAS LEAKAGE DETECTION UNIT
DISPLAY UNIT
500

FIG. 5


START
GENERATE EMERGENCY SHUTDOWN SIGNAL FOR CLOSING OFF GAS DELIVERY PATH IN MAIN CONTROL
510
GENERATE FORCIBLE OPENING SIGNAL FOR FORCIBLY KEEPING VALVES IN GAS DELIVERY PATH OPEN IN RESPONSE TO EMERGENCY SHUTDOWN SIGNAL IN SUBSIDIARY CONTROL UNIT
530
TURN ON WARNING LAMP IN RESPONSE TO EMERGENCY SHUTDOWN SIGNAL
550
CHECK GAS DELIVERY SYSTEM BY WORKER
570
END